

LIS010789068B2

# (12) United States Patent

Thomas et al.

# (10) Patent No.: US 10,789,068 B2

(45) **Date of Patent: Sep. 29, 2020** 

## (54) SYSTEM AND METHOD FOR VERIFYING SEQUENCE OF INSTRUCTIONS OF SOFTWARE

(71) Applicant: **Ripple Luxembourg S.A.**, Luxembourg

(72) Inventors: **Stefan Thomas**, San Francisco, CA (US); **Evan Schwartz**, San Francisco,

CA (US)

(73) Assignee: RIPPLE LABS INC., San Francisco,

CA (US)

(\*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35 U.S.C. 154(b) by 289 days.

(21) Appl. No.: 15/873,737

(22) Filed: Jan. 17, 2018

(65) **Prior Publication Data** 

US 2018/0157487 A1 Jun. 7, 2018

#### Related U.S. Application Data

- (63) Continuation of application No. 14/733,232, filed on Jun. 8, 2015, now Pat. No. 9,904,544.
- (51) Int. Cl.

  G06F 8/77 (2018.01)

  G06F 8/61 (2018.01)

  G06Q 30/00 (2012.01)

  G06Q 40/04 (2012.01)

(58) Field of Classification Search
CPC .. G06F 8/77; G06F 8/61; G06Q 30/00; G06Q
40/04
See application file for complete search history.

#### (56) References Cited

#### U.S. PATENT DOCUMENTS

6,173,446 B	1 * 1/2001	Khan G06F 21/10
2002/0078401 A	1* 6/2002	709/203 Fry G06F 11/2268
		714/30
2003/0061487 A	.1* 3/2003	Angelo G06F 21/565 713/176
2003/0120754 A		Muto et al.
2005/0065811 A		Chu et al.
2006/0031686 A		Atallah et al.
2008/0228784 A	.1* 9/2008	Dempsey G06F 9/30021
(Continued)		

#### OTHER PUBLICATIONS

"Codius—Open-source Hosting Platform for Smart Programs", https://www.codius.org/; retrieved Jun. 8, 2015, 1 Page.

(Continued)

Primary Examiner — Viva Miller (74) Attorney, Agent, or Firm — Butzel Long

#### (57) ABSTRACT

In a method for executing software, a result produced from an execution of a copy of the software by a corresponding platform can be received from each of a plurality of platforms. A number of results of execution of the software can be determined. The extent to which the results match can be compared to a threshold. The matching results can be accepted as an agreed-upon output of the software when the extent to which the results match is equal to or greater than the threshold. The software can include an implementation of at least a portion of an act associated with an agreement between at least two entities.

## 18 Claims, 19 Drawing Sheets

